

Claims

1. A package (1) for the storage of at least two substances in separate chambers, comprising:
  - 5 a first chamber (3), which contains a flowable first substance (5), and a second chamber (7), wherein  
the first chamber (3) and the second chamber (7) are in each case formed from portions, sealed to one another in liquid tight manner, of a base film (11) and a cover film (13),
  - 10 the cover film (13) is a composite film comprising a first barrier foil (21) of a metallic material,  
the base film (11) is a composite film comprising a second barrier foil (29) of a metallic material, wherein the metallic material of the second barrier foil (29) is softer than that of the first barrier foil (21),
  - 15 in a zone (15) connecting the first chamber (3) and the second chamber (7),  
the base film (11) and the cover film (13) are sealed to one another in such a manner that, by exerting external pressure on the first chamber (3), (a) the sealed joint between the films (11, 13) may break selectively in the stated zone (15), (b) a passage channel (25) may form between the first and the  
20 second chambers and (c) the first substance (5) may be transferred from the first into the second chamber, and  
optionally the cover film (13) has a material weakening in a zone (17) associated with the second chamber (7), such that it is more readily pierceable in this zone than in adjacent zones without material weakening.
- 25 2. A package according to claim 1, characterised in that the cover film (13) comprises a first sealing layer (19), the base film (11) comprises a second

sealing layer (27) and the second sealing layer (27) is thicker than the first sealing layer (19) and is sealed thereto.

3. A package according to claim 1 or claim 2, characterised in that a reinforced weld seam is placed in the zone of the common rim around the chambers (3, 7).

4. A package according to any one of the preceding claims, characterised in that a single weld seam is placed in the zone connecting the first chamber (3) and the second chamber (7).

5. A package according to any one of the preceding claims, characterised in that the cover film (13) comprises a stabilising film (23).

6. A package according to any one of the preceding claims, characterised in that the optionally present material weakening of the cover film (13) is based on one or more of the following measures:

- a reduced thickness of the cover film (13) in the zone associated with the second chamber (7) in comparison with adjacent zones of the cover film,

- a development of the cover film as a composite film according to claim 5, wherein a stabilising film (23) is provided which has a recess in the zone associated with the second chamber,

20 - an embossed area or a score in the cover film in the zone associated with the second chamber.

7. A package according to any one of the preceding claims, characterised in that the seal between the base film (11) and the cover film (13) is weakened in the zone (15) connecting the first chamber (3) and the second chamber (7).

25 8. A package according to claim 7, characterised in that the seal between the base film (11) and the cover film (13) is weakened in the zone connecting

the first chamber and the second chamber on the basis of one or more of the following measures:

- arrangement of foreign particles, preferably stamped out particles of peel film, in the weakened seal zone,
- 5 - application prior to production of the seal of a substance which impairs sealing of the base film and cover film onto the base and/or cover film in the zone to be weakened,
- 10 - production of the seal by welding the base film and cover film, wherein in the zone connecting the first chamber and the second chamber the welding temperature and/or welding pressure and/or welding time differ from that/those in adjacent zones,
- provision of different seal geometries in (a) the zone connecting the first chamber and the second chamber and (b) adjacent zones.

9. A package according to any one of the preceding claims, characterised

15 in that the base film (11) comprises an outer film (31).

10. A package according to any one of the preceding claims, characterised

in that the base film (11) has a standing area which is opposite the zone of the cover film (13) which has a material weakening and is designed such that the package may be set down on a horizontal surface after or during piercing of  
20 the weakened zone (17) without a flowable substance being able to escape from the second chamber (7) into the surrounding environment.

11. A package according to any one of the preceding claims, characterised

in that it comprises two or more units (81) with a first and a second chamber.

12. A process for the production of a directly applicable mixture of two

25 substances with the following steps:

- provision of a package (1) according to any one of claims 1-11, wherein the second chamber (7) contains a second substance (9),

- exerting an external pressure on the first chamber (3), such that (a) the sealed joint between the films (11, 13) is selectively broken in said zone, (b) a passage channel (25) is formed between the first and the second chambers and (c) the first substance (5) is transferred from the first into the second chamber and is brought into contact with the second substance,  
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- piercing the cover film (13) in the zone (17) associated with the second chamber (7), which zone has a material weakening,
- mixing of the first and the second substances before or after piercing of  
10 the cover film (13),
- dispensing the mixture of the first and second substances from the second chamber (7).